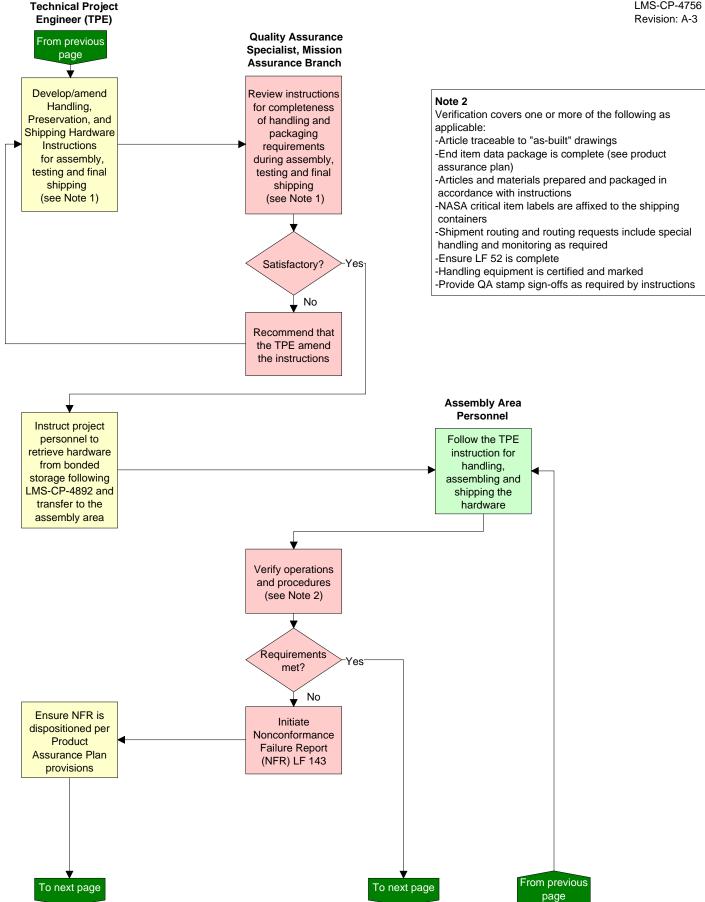
Technical Project HANDLING, PRESERVATION, STORAGE, AND **Engineer (TPE)** SHIPPING OF SPACE FLIGHT HARDWARE **START** LMS-CP-4756 Revision: A-3 Objectives: Develop/amend -to ensure space flight hardware and ground support Handling, equipment is handled, preserved, and shipped in a Preservation, and manner to preclude damage Shipping Hardware Instructions for incorporation Original signed on file Approval into Drawings and **Quality Assurance** Center Director Shop Order Specialist, Quality Travelers Assurance and for fabrication Inspection Branch (QAIB) **General Information** (see Note 1) Review the The following records are generated by this procedure and are maintained in accordance with CID 1440.7: Drawing, Shop Order Traveler, or -Noncomformance Failure Report (LF 143) procedure/ LaRC instruction for fabrication Note 1 completeness of Yes required? During all phases of fabrication and processing, handling and articles and materials shall be handled, preserved, packaging shipped, and stored in a manner to prevent damage requirements and/or degradation, specifically: Initiate fabrication -Handling equipment (cranes, cables, lifting fixtures) process must be certified per agency requirements CID 5640 with -Protective measures shall be identified and any special Satisfactory? implemented to prevent deterioration from handling and Yes environmental hazards, such as moisture, molecular packaging and attached particulates, condensable volatiles, salt requirements No spray, sunlight, and temperature specified -Electrostatic discharge-sensitive items shall be packaged and shipped in a project-approved Recommend that electrostatic discharge (ESD) protective material the TPE amend -Packaging procedures for hazardous materials must the instructions **Fabrication** be approved by the Technical Project Engineer (TPE), **Technician** Mission Assurance Branch (MAB) Quality Assurance Specialist (QAS), and LaRC Safety Manager Additionally: Fabricate the Check for and hardware -NPR 6000.1 may be referred to for practices or record compliance guidelines according to with the handling Purchase the specifications/ -The vendor may specify special storage requirements and packaging hardware -Special storage requirements may be specified per CID 5640 and requirements; following previous user experience comply with the LMS-CP-4501 resolve any -Due to security concerns, packages, etc., are subject handling and problems per to x-ray/irradiation. Proper precautions shall be packaging CID 5640 included to prevent damage to items susceptible to requirements Perform receiving x-rays/irradiation. inspection according to the Product Assurance Plan Instruct project Notify the TPE to personnel to put pick up hardware the hardware into and put into bonded storage per bonded storage LMS-CP-4892 until needed To next page

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END

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